What is claimed is:

- An estimation system for harness processing, comprising:

 a storage unit which is constituted by a memory medium or
 memory elements, and which stores an estimation function for

 calculating an estimation of a harness based on a designated processing condition for processing the harness;
- an input unit which receives input of information; and
 a control circuit which calculates the estimation of the harness
 based on the estimation function read out from said storage unit and
 the processing condition designated from said input unit.
 - 2. The estimation system for harness processing according to claim 1, comprising a communication unit which receives the estimation function and stores the received estimation function in said storage unit.
- 3. The estimation system for harness processing according to claim 1, wherein said input unit comprises a communication unit which receives the processing condition from an external terminal and provides the received processing condition to said control circuit, and sends an estimation result for the harness calculated by said control circuit to said external terminal.
 - 4. The estimation system for harness processing according to claim 3, wherein:

said external terminal to which the estimation result is sent is a specific terminal; and

said control circuit confirms that said external terminal is the

specific terminal until at least before the estimation result is sent to said external terminal, and then sends the estimation result to said external terminal via said communication unit.

- The estimation system for harness processing according to
 claim 1, wherein the estimation function for the harness is a function
 for calculating a unit component price of the harness based on the
 processing condition for the harness.
 - 6. The estimation system for harness processing according to claim 2, wherein the estimation function for the harness is a function for calculating a unit component price of the harness based on the processing condition for the harness.
 - 7. The estimation system for harness processing according to claim 3, wherein the estimation function for the harness is a function for calculating a unit component price of the harness based on the processing condition for the harness.
 - 8. The estimation system for harness processing according to claim 4, wherein the estimation function for the harness is a function for calculating a unit component price of the harness based on the processing condition for the harness.
- 20 9. The estimation system for harness processing according to claim 1, comprising an output unit which outputs information,

wherein said control circuit performs:

- a1) a step of acquiring the processing condition for the harness which is designated from said input unit;
- b1) a step of storing the designated processing condition in said

storage unit,

- c1) a step of reading out the designated processing condition from said storage unit,
- d1) a step of reading out the estimation function from saidstorage unit,
 - e1) a step of calculating the unit component price of the harness that corresponds to the designated processing condition, based on the read-out estimation function and a content of the designated processing condition,
- 10 f1) a step of storing the calculated unit component price in said storage unit,
 - g1) a step of reading out the unit component price from said storage unit, and
- h1) a step of outputting the read-out unit component price viasaid output unit.
- 10. The estimation system for harness processing according to claim 1, wherein the estimation function stored in said storage unit is an operation time estimation function for calculating, based on the processing condition, an instrument operation time of each process
 step for processing the harness by using a harness processing instrument.
 - 11. The estimation system for harness processing according to claim 10, wherein said control circuit performs:
- a2) a step of acquiring the processing condition designated foreach process step via said input unit,

- b2) a step of storing the designated processing condition in said storage unit,
- c2) a step of reading out the designated processing condition from said storage unit,
- d2) a step of reading out the operation time estimation function from said storage unit,
 - e2) a step of calculating the instrument operation time of each process step based on the read-out operation time estimation function and the designated processing condition, and
- f2) a step of storing the calculated instrument operation time of each process step in said storage unit.
 - 12. The estimation system for harness processing according to claim 11, wherein:

said storage unit stores an operation cost estimation function for calculating, based on the instrument operation time, an instrument operation cost that is required for processing the harness using the harness processing instrument; and

said control circuit performs

- a3) a step of reading out the calculated instrument operation time
 of each process step from said storage unit,
 - b3) a step of reading out the operation cost estimation function from said storage unit,
- c3) a step of calculating the instrument operation cost of each
 process step based on the read-out instrument operation time of each
 process step and the operation cost estimation function, and

- d3) a step of storing the calculated instrument operation cost of each process step in said storage unit.
- 13. The estimation system for harness processing according to claim 12, wherein:
- said storage unit stores a work time estimation function for calculating an instrument work time which is required for processing the harness using the harness processing instrument, based on the designated processing condition; and

said control circuit performs

- a4) a step of reading out the work time estimation function from said storage unit,
 - b4) a step of calculating the instrument work time of each process step based on the read-out work time estimation function and the designated processing condition, and
- c4) a step of storing the calculated instrument work time of each process step in said storage unit.
 - 14. The estimation system for harness processing according to claim 13, wherein:

said storage unit stores a labor cost estimation function for

calculating, based on the instrument work time, an instrument labor

cost that is required for processing the harness using the harness

processing instrument; and

said control circuit performs

a5) a step of reading out the calculated instrument work time of each process step from said storage unit,

- b5) a step of reading out the labor cost estimation function from said storage unit,
- c5) a step of calculating the instrument labor cost of each
 process step based on the read-out instrument work time of each
 process step and the labor cost estimation function, and
 - d5) a step of storing the calculated instrument labor cost of each process step in said storage unit.
 - 15. The estimation system for harness processing according to claim 14, wherein:
- said storage unit stores a planning time estimation function for calculating, based on the designated processing condition, a planning time before processing the harness using the harness processing instrument; and

said control circuit performs

- a6) a step of reading out the planning time estimation function from said storage unit,
 - b6) a step of calculating the planning time of each process step based on the read-out planning time estimation function and the designated processing condition, and
- 20 c6) a step of storing the calculated planning time of each processing step in said storage unit.
 - 16. The estimation system for harness processing according to claim 15, wherein:

said storage unit stores a planning cost estimation function for 25 calculating, based on the planning time, a planning cost required for processing the harness using the harness processing instrument; and said control circuit performs

- a7) a step of reading out the calculated planning time of each process step from said storage unit,
- b7) a step of reading out the planning cost estimation function from said storage unit,
 - c7) a step of calculating the planning cost of each process step based on the read-out planning time of each process step and the planning cost estimation function, and
- d7) a step of storing the calculated planning cost of each process step in said storage unit.
 - 17. The estimation system for harness processing according to claim 16, wherein said control circuit performs:
- a8) a step of reading out the calculated instrument operation cost,
 instrument labor cost, and planning cost of each process step from
 said storage unit,
- b8) a step of calculating a processing cost required for
 processing the harness using the harness processing instrument, by
 adding up the read-out instrument operation cost, instrument labor
 cost, and planning cost, and
 - c8) a step of storing the calculated processing cost in said storage unit.
 - 18. The estimation system for harness processing according to claim 17, comprising an output unit which outputs information,
- wherein said control circuit performs:

- a9) a step of reading out the calculated processing cost from said storage unit, and
- b9) a step of outputting the read-out processing cost via said output unit.
- 5 19. The estimation system for harness processing according to claim 18, wherein said control circuit performs:
 - a10) a step of reading out the calculated instrument operation time, instrument work time, and planning time from said storage unit, and
- b10) a step of outputting the read-out instrument operation time, instrument work time, and planning time via said output unit.
- 20. An estimation system comprising: a storage unit which stores information; an input unit which receives input of information; and a control circuit which controls operations of said storage unit and input unit,

wherein:

said storage unit stores a component database associating a quantity of child components necessary for manufacturing each harness and a unit child component price of the child components with identification information of each harness, and also stores a material cost estimation function for calculating a material cost of each harness by inputting thereto, the quantity and the unit child component price; and

said control circuit performs

25 all) a step of acquiring identification information of a harness

for which estimation is to be made via said input unit,

- b11) a step of reading out the quantity and the unit child component price associated with the acquired identification information of the harness from the component database in said storage unit,
 - c11) a step of reading out the material cost estimation function from said storage unit,
- d11) a step of calculating the material cost of the harness corresponding to the acquired identification information, based on the read-out material cost estimation function and the read-out quantity of child components and unit child component price, and
 - e11) a step of storing the calculated material cost in said storage unit.
- 21. The estimation system according to claim 20, comprising an output unit which outputs information,

wherein said control circuit performs

- a12) a step of creating a component screen displaying the read-out quantity of child components and unit child component price, and outputting the created component screen via said output unit,
 - b12) a step of acquiring a change of the quantity of child components and/or unit child component price displayed on the component screen, via said input unit, and
- c12) a step of calculating the material cost of the harness based on the changed quantity and unit child component price and the

material cost estimation function.

- 22. An estimation method for harness processing, wherein in a system comprising: a storage unit which is constituted by a memory medium or memory elements, and which stores an estimation
- 5 function for calculating an estimation of a harness based on a designated processing condition for processing the harness; a control circuit; and an input unit which receives input of information;

said estimation method causes said control circuit to calculate the estimation of the harness based on the estimation function read out 10 from said storage unit and the processing condition designated from said input unit.

- 23. The estimation method for harness processing according to claim 22, wherein:
- a communication unit is provided to said system; and said estimation method causes said communication unit to 15 receive the estimation function and store the received estimation function in said storage unit.
 - The estimation method for harness processing according to claim 23, wherein:
- a communication unit is provided to said input unit; and 20 said estimation method causes said communication unit to receive the processing condition from an external terminal, provide the received processing condition to said control circuit, and send an estimation result for the harness calculated by said control circuit to 25 said external terminal.

- 25. A program, wherein in a system comprising: a storage unit which is constituted by a memory medium or memory elements, and which stores an estimation function for calculating an estimation of a harness based on a designated processing condition for processing
 5 the harness; and an input unit which receives input of information; and a control circuit, said program controls said control circuit to perform an operation of calculating the estimation of the harness based on the estimation function read out from said storage unit and the processing condition designated from said input unit.
- 10 26. The program according to claim 25, wherein said system comprises a communication unit which receives the estimation function and stores the received estimation function in said storage unit.
- 27. The program according to claim 25, wherein the input unit comprises a communication unit which receives the processing condition from an external terminal, provides the received processing condition to said control circuit, and sends an estimation result for the harness calculated by said control circuit to said external terminal.
 - 28. The program according to claim 27, wherein:
- said external terminal to which the estimation result is sent is a specific terminal; and

said program controls said control circuit to confirm that said external terminal is the specific terminal until at least before the estimation result is sent to said external terminal, and then send the estimation result to said external terminal via said communication

unit.

- 29. The program according to claim 25, wherein the estimation function for the harness is a function for calculating a unit component price of the harness based on the processing condition for the harness.
 - 30. The program according to claim 26, wherein the estimation function for the harness is a function for calculating a unit component price of the harness based on the processing condition for the harness.
- 31. The program according to claim 27, wherein the estimation function for the harness is a function for calculating a unit component price of the harness based on the processing condition for the harness.
- 32. The program according to claim 28, wherein the estimation function for the harness is a function for calculating a unit component price of the harness based on the processing condition for the harness.
- 33. The program according to claim 25, wherein:
 said system comprises an output unit which outputs information;
 and

said program controls said control circuit to perform

- a1) a step of acquiring the processing condition for the harness which is designated from said input unit,
- b1) a step of storing the designated processing condition in said 25 storage unit,

- c1) a step of reading out the designated processing condition from said storage unit,
- d1) a step of reading out the estimation function from said storage unit,
- e1) a step of calculating the unit component price of the harness that corresponds to the designated processing condition, based on the read-out estimation function and a content of the designated processing condition,
- f1) a step of storing the calculated unit component price in said
 storage unit,
 - g1) a step of reading out the unit component price from said storage unit, and
 - h1) a step of outputting the read-out unit component price via said output unit.
- 15 34. The program according to claim 25, wherein the estimation function stored in said storage unit is an operation time estimation function for calculating, based on the processing condition, an instrument operation time of each process step for processing the harness during which a harness processing instrument is operated.
- 20 35. The program according to claim 34, controlling said control circuit to perform:
 - a2) a step of acquiring the processing condition designated for each process step via said input unit,
- b2) a step of storing the designated processing condition in said storage unit,

- c2) a step of reading out the designated processing condition from said storage unit,
- d2) a step of reading out the operation time estimation function from said storage unit,
- e2) a step of calculating the instrument operation time of each process step based on the read-out operation time estimation function and the designated processing condition, and
 - f2) a step of storing the calculated instrument operation time of each process step in said storage unit.
- 10 36. The program according to claim 35, wherein:

said storage unit stores an operation cost estimation function for calculating, based on the instrument operation time, an instrument operation cost that is required for processing the harness using the harness processing instrument; and

- said program controls said control circuit to perform
 - a3) a step of reading out the calculated instrument operation time of each process step from said storage unit,
 - b3) a step of reading out the operation cost estimation function from said storage unit,
- 20 c3) a step of calculating the instrument operation cost of each process step based on the read-out instrument operation time of each process step and the operation cost estimation function, and
 - d3) a step of storing the calculated instrument operation cost of each process step in said storage unit.
 - 37. The program according to claim 36, wherein:

said storage unit stores a work time estimation function for calculating an instrument work time which is required for processing the harness using the harness processing instrument, based on the designated processing condition; and

- said program controls said control circuit to perform
 - a4) a step of reading out the work time estimation function from said storage unit,
- b4) a step of calculating the instrument work time of each process step based on the read-out work time estimation function and the designated processing condition, and
 - c4) a step of storing the calculated instrument work time of each process step in said storage unit.
 - 38. The program according to claim 37, wherein:

said storage unit stores a labor cost estimation function for

calculating, based on the instrument work time, an instrument labor

cost that is required for processing the harness using the harness

processing instrument; and

said program controls said control circuit to perform

- a5) a step of reading out the calculated instrument work time ofeach process step from said storage unit,
 - b5) a step of reading out the labor cost estimation function from said storage unit,
- c5) a step of calculating the instrument labor cost of each
 process step based on the read-out instrument work time of each
 process step and the labor cost estimation function, and

- d5) a step of storing the calculated instrument labor cost of each process step in said storage unit.
 - 39. The program according to claim 38, wherein:

said storage unit stores a planning time estimation function for

5 calculating, based on the designated processing condition, a planning
time before processing the harness using the harness processing
instrument; and

said program controls said control circuit to perform

- a6) a step of reading out the planning time estimation function from said storage unit,
 - b6) a step of calculating the planning time of each process step based on the read-out planning time estimation function and the designated processing condition, and
- c6) a step of storing the calculated planning time of eachprocessing step in said storage unit.
 - 40. The program according to claim 39, wherein:

said storage unit stores a planning cost estimation function for calculating, based on the planning time, a planning cost required for processing the harness using the harness processing instrument; and

- said program controls said control circuit to perform
- a7) a step of reading out the calculated planning time of each process step from said storage unit,
- b7) a step of reading out the planning cost estimation function from said storage unit,
- c7) a step of calculating the planning cost of each process step

based on the read-out planning time of each process step and the planning cost estimation function, and

- d7) a step of storing the calculated planning cost of each process step in said storage unit.
- 5 41. The program according to claim 40, controlling said control circuit to perform:
 - a8) a step of reading out the calculated instrument operation cost, instrument labor cost, and planning cost of each process step from said storage unit;
- b8) a step of calculating a processing cost required for processing the harness using the harness processing instrument, by adding up the read-out instrument operation cost, instrument labor cost, and planning cost; and
- c8) a step of storing the calculated processing cost in said
 15 storage unit.
 - 42. The program according to claim 41, wherein: said system comprises an output unit which outputs information; and

said program controls said control circuit to perform

- a9) a step of reading out the calculated processing cost from said storage unit, and
- b9) a step of outputting the read-out processing cost via said output unit.
- 43. The program according to claim 42, controlling said control circuit to perform:

- a10) a step of reading out the calculated instrument operation time, instrument work time, and planning time from said storage unit; and
- b10) a step of outputting the read-out instrument operation time, 5 instrument work time, and planning time via said output unit.